EXHIBIT A

				ont Side Only, Please							
tha	INVENTIO	N DISCLOS	JRE	•	PAGE Ó	NE OF					
:		2011682			ATTOR	<u> </u>					
Instructions: Th	e information co	ntained in this do	cument is COMPAN	Y CONFIDENTIAL and may	not be disclosed to	others without prior					
authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is											
authorized, prepa	red, and submitte	ed to the Governme	ent								
Descriptive Title of Invention: Ink Emissions Condenser and Collection System for an Ink Jet Printer											
		ollection plansum	ior an ink jei printer								
	Name of Project:										
FALCON	- \$h\	-									
	Product Name or Number: Scanning/Page Wide Array										
Was a description	of the invention	published or are v	ou planning to publish	? If so, the date(s) and public	ation/sh						
The a cashipus	10) UIO IIITOIIIOII	pasiona, or are y	on burning to burner	i i oo, alo ana(o) ana panio	anadob						
Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, the date(s) and location(s):											
Was the invention	n disclosed to any	one outside of HP,	or will such disclosur	e occur? If so, the date(s) and	i name(s):						
Was the importer				omey or the Legal Department now el ntify (lab book #, etc.)	1-898-4919 or 970-898-41	319.					
4492 nie iuseuro	TOBBOTODED ()1 & R	AD DUOK OF GUIEF FE	zorar ii so, piease rue	nuly (RED DOOK #, BCC.)							
Was the invention	n built or tested?	If so, the date:									
	em was built and										
Was this invente	n made under a g	jovernment contrac	t? If so, the agency a	ind contract number:							
Description of I	vention: Please	preserve all recon	ts of the invention and	f ettach edditional pages for th	e following. Fach ac	ditional page should					
	be sign	ed and dated by th	e inventor(s) and with(ess(es).	-	. •					
A. Description	of the construction	n and operation of t	the invention (include a	appropriate schematic, block,	& liming diagrams: d	rawings: samples:					
graphs; flow	charts; computer l	listings; test results	s; etc.)	, , , , , , , , , , , , , , , , , , , ,		,					
		wer what has been	done before.			;					
C. Problems solved by the invention.											
D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).											
Signature of inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [
110 212	.1	A. Riou	6"			į					
490718	MICHEL	A. Klou	Mfron	212-646	g	400-543					
Employee No.	Name		Signature	Telnet	Mailstop	Entity & Lab Name					
diana	Davo	Q / * 050	, (1) 72	1		IPD ROD HARMA					
464122	NAMO	D LAYSU	Jan Jan J	Fan 212-217	6	5400-5643					
Employee No.	Name		Signature	Teinet	Mailstop	Entity & Lab Name					
					-						
Employee No.	Name		Signature	T _11	Mallatar	C-th. 01 1 1					
, ,	.10/10		ាវិក្រា ពការន	Telnet	Mailstop	Entity & Lab Name					
Employee No	Mana	·	<u> </u>								
Employee No.	Name I more then four in	nimatam Saskida -	Signature	Telnet	Mailstop	Entity & Lab Name					
	mare men four if	ivernors, include a	ruivonal information o	n another copy of this form an	d attach to this docum	ment)					

Form 3.1 idf.doc, rev.

Write in Dark Ink on Front Side Only, Please

INVENTION DISCLOSURE	COMPANY CONFIDENTIA	PAGE_1	OF 4
Signature of Witness(es): (Please by to obtain the signature	of the person(s) to whom invention was fire	t disclosed.)	
The invention was first explained to, and understoo	d by, me (us) on this date: [<u> </u>
Full Name Si	gnature	Dai	e of Signature
Wade Antoine fewell Wa	Le A. Powell		
Wade Antoine Powell Was Full Name JOHN / MONTO BALSMACA	grature P	Dal	e of Signature
SOPIN ANIONO BUENTANCA	of Dund	·	<u>, , , , , , , , , , , , , , , , , , , </u>
Inventor & Home Address Information: ## more than	four inventors, include addl. information or	a copy of this form & attach to	this document)
Inventor's Full Name			
Michel Riou			
Street			
12348 SE Grova Ct.			
City		State	Zφ
Milwaukle Do you have a Residential P.O. Address? P.O. BOX	City	OR	97222
bo you have a residential F.U. AUD 655 / F.U. DUA	Lily	State	Zip
Greeled as (nicknama, middle name, etc.)	Citizens		
Mike	C	INADA	
inventor's Full Name			
DAVID BERT LARSUN			
Street [63,0 NE 340]4 ST City			
16310 NE 3457 ST	· · · · · · · · · · · · · · · · · · ·		
City		State	79 9868 Z
UAALONUER. Do you have a Residential P.O. Address? P.O. BOX	City	WA- State	760° Z.
So you all a reasonair to reason in the sound	νι)	oraia	24
Greeted as (nickname, middle name, stc.)	Cituens	hip	
DAVID	····	" USA	
Inventor's Full Name			
Sireel	··		
ouet.			
City		State	Ζφ
•		adia	τψ
Do you have a Residential P.O. Address? P.O. BOX	Čity	State	Zp
Greeted as (nickname, middle name, etc.)	Citizens	nip qir	
Inventor's Full Name			
Street	······································		*****
City		State	Ζφ
		_	
Do you have a Residental P.O. Address? P.O. BOX	City	State	Zp
Greeted as (nickname, mixidia name, etc.)			
	Citizens	ifi .	

Form 3.1 idf.doc, rev.

19 3/4

Mike Riou

A: Description of Invention

New high throughput writing systems will require heaters to drive off moisture from the paper. This is required to achieve handleability and stacking goals for the output. Once the paper and ink is heated, the high humidity air must be collected, processed and exhausted to the atmosphere. The humid air is a mixture of water from the ink, paper, solvents from the ink, and ink aerosol. This invention collects the heated vapours, condenses the water and solvents, filters the aerosol, and pumps and stores the collected condensate.

(At some of the proposed throughputs, ink usage (for scanning) may reach 1.9 L/hr. Assuming 80% of the ink is driven off during heating, up to 1.5 L/hr may have to be processed.)

Note – Ink is approx 80% water, 15-18% solvent, and the remainer is dye, biocide, etc. When it is heated, the vapour is about the same composition, with the most of the dye slaying in the paper. The vapour is ~80% water, 20% solvents.

(See attached diagram for a schematic of system.)

B: Advantages of Invention:

- 1) Previous designs did not have any condensation systems due to a lack of heaters and/or relatively low throughputs. The only system was a fan and filter to control aerosol.
- 2) The humid air is controlled evacuated from the printzone and processed. This will minimize the amount of water condensing on critical surfaces and causing print quality problems.
- 3) Waste condensate can be stored and disposed of correctly.
- 4) Ink solvents can be prevented from entering the atmosphere around the printer in high quantities. Note that there are limits to the amount of some solvents in the air. Some solvents do not have limits yet. Also, some solvents may not be harmful, but have annoying odours that may be unacceptable.

C: Problems Solved by the Invention:

- The humid air is controlled evacuated from the printzone and processed.
 This will minimize the amount of water condensing on critical surfaces and causing print quality problems.
- 2) Waste condensate can be stored and disposed of correctly.

D: Prior Solutions and their Disadvantages:

The only solution I know of is an aerosol fan to remove air from the interior of the printer. We have never cooled or condensed vapour.

EMISSIONS CONDENSER AND	STOPACIE	SYSTEM	Book No		19 M/W	ر _{اين} 61
ige No			LIEAN F	L71-1200	exhoust" "Aif	2
O AIR (VAPOUR) SUCTED IN	D INTAKE	NOTFLE		•		
D VAPOUR RUNS ACCOSS COND LOW TEMP TO CONDENS	ENSEL MOD	HUE AT		\ No	AKE POE VAPOUR	
(3) AIR IS FILTERED		ABBOST - FICTER			PARES	
(1) AIR IS PELEPASIED TO AM	Tribian Tribian			<u>F</u>		PAPER MORTON
OFFICE CONDITIONS		CONDUCE		+	· 9	
(5) CONDENSAGE IS PLEMPED)	LO FLATE)	/// //	1		
TO A RESERVOIR	Conden	QuelP	Be	et paraz		arees
		CONSTRUSATE				
				7	CONDENSATE_	STOPAGE
· · · · · · · · · · · · · · · · · · ·					CONTAINER	
				ι.	Reservoir	
					FIXED O	
				ue	N LIFE O	
	•		y a v a a d'am adria had sett v	. Р	KINGER.)_)man, - en en mar
Prox 4/4	"					
Alfron	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* ***** * * * ***	and the second second of admittant of the			
tand for	- • • • •					
Witnesses:						
Wade A. Powell						
Joh Bonz						Page No
sed & Understood by me,	Date	Invented by	Mpiono		Date	